



**TROPICAL CYCLONE BULLETIN NO. 12**  
**Typhoon BETTY (MAWAR)**

Issued at 11:00 PM, 29 May 2023

Valid for broadcast until the next bulletin at 5:00 AM today.

**TYPHOON BETTY IS NOW MOVING SLOWLY NORTH NORTHWESTWARD OVER THE WATERS EAST OF BATANES AND BABUYAN ISLANDS.**

**Location of Center (10:00 PM)**

The center of the eye of Typhoon BETTY was estimated based on all available data at **440 km East of Calayan, Cagayan** or **385 km East of Basco, Batanes (19.5°N, 125.7°E)**

**Intensity**

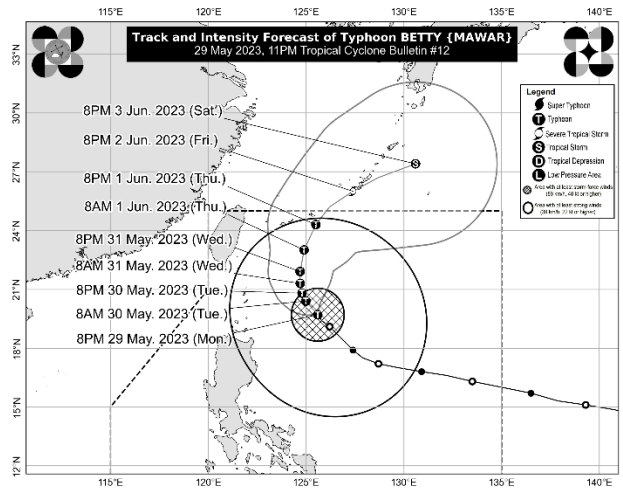
Maximum sustained winds of **155 km/h** near the center, gustiness of up to **190 km/h**, and central pressure of **950 hPa**

**Present Movement**

**North northwestward slowly**


**Extent of Tropical Cyclone Winds**

**Strong to typhoon-force winds** extend outwards up to **630 km** from the center



**TRACK AND INTENSITY FORECAST**

Date and Time	Center Position			Intensity		Movement dir. and speed (km/h)
	Lat. (°N)	Lon. (°E)	Location	MSW (km/h)	Cat.	
<b>12-Hour Forecast</b> 8:00 AM 30 May 2023	20.4	125.0	315 km East of Basco, Batanes	150	TY	NW 10
<b>24-Hour Forecast</b> 8:00 PM 30 May 2023	20.8	124.8	310 km East of Itbayat, Batanes	150	TY	NNW Slowly
<b>36-Hour Forecast</b> 8:00 AM 31 May 2023	21.3	124.7	305 km East Northeast of Itbayat, Batanes	150	TY	N Slowly
<b>48-Hour Forecast</b> 8:00 PM 31 May 2023	21.9	124.7	320 km East Northeast of Itbayat, Batanes	140	TY	N Slowly
<b>60-Hour Forecast</b> 8:00 AM 01 June 2023	23.0	124.9	400 km Northeast of Itbayat, Batanes	130	TY	N 10
<b>72-Hour Forecast</b> 8:00 PM 01 June 2023	24.3	125.5	545 km Northeast of Itbayat, Batanes	120	TY	NNE 15
<b>96-Hour Forecast</b> 8:00 PM 02 June 2023	26.0	127.4	810 km Northeast of Extreme Northern Luzon (OUTSIDE PAR)	95	STS	NE 10
<b>120-Hour Forecast</b> 8:00 PM 03 June 2023	27.4	130.6	1,155 km Northeast of Extreme Northern Luzon (OUTSIDE PAR)	85	TS	ENE 15

Prepared by:   
**PCDM**

Checked by:   
**RPG**



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TROPICAL CYCLONE WIND SIGNALS (TCWS) IN EFFECT			
TCWS No.	Luzon	Visayas	Mindanao
<b>2</b> Wind threat: <b>Gale-force winds</b>	<b>Batanes and the northeastern portion of Cagayan (Santa Ana, Gonzaga) including Babuyan Islands</b>	-	-
	Warning lead time: <b>24 hours</b> Range of wind speeds: <b>62 to 88 km/h (Beaufort 8 to 9)</b> Potential impacts of winds: <b>Minor to moderate threat to life and property</b>		
<b>1</b> Wind threat: <b>Strong winds</b>	<b>The rest of mainland Cagayan, Isabela, Ilocos Norte, Apayao, Kalinga, Abra, the eastern portion of Mountain Province (Paracelis, Natonin, Sadanga, Barlig), and the northern of Aurora (Dilasag, Casiguran)</b>	-	-
	Warning lead time: <b>36 hours</b> Range of wind speeds: <b>39 to 61 km/h (Beaufort 6 to 7)</b> Potential impacts of winds: <b>Minimal to minor threat to life and property</b>		

HAZARDS AFFECTING LAND AREAS
<p><b><u>Heavy Rainfall Outlook</u></b></p> <p><b>Forecast accumulated rainfall from tonight to tomorrow evening</b></p> <ul style="list-style-type: none"> <li>• <b>50-100 mm:</b> Batanes, Babuyan Islands, the northern portion of mainland Cagayan, the northern portion of Ilocos Norte, the southern portion of Ilocos Sur, and the northern portion of La Union.</li> </ul> <p><b>Forecast accumulated rainfall from tomorrow evening to Wednesday evening</b></p> <ul style="list-style-type: none"> <li>• <b>100-200 mm:</b> The southern portion of Ilocos Sur and northern portion of La Union</li> <li>• <b>50-100 mm:</b> Batanes, Babuyan Islands, Ilocos Norte, the rest of Ilocos Sur, the rest of La Union, Abra, Benguet, and the western portion of Mountain Province.</li> </ul> <p><b>Forecast accumulated rainfall from Wednesday evening to Thursday evening</b></p> <ul style="list-style-type: none"> <li>• <b>50-100 mm:</b> Batanes</li> </ul> <p>Under these conditions, <b>flooding and rain-induced landslides are possible</b>, especially in areas that are highly or very highly susceptible to these hazard as identified in hazard maps and in localities that experienced considerable amounts of rainfall for the past several days.</p> <p>For more information on the areas affected by rains from the <b>Southwest Monsoon enhanced by BETTY</b>, refer to the <b>Weather Advisory #2 for Southwest Monsoon</b> issued at 11:00 PM today.</p>

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<p><b>Severe Winds</b></p> <ul style="list-style-type: none"> <li>• <b>Wind Signals in some areas of Luzon have been lifted.</b></li> <li>• Minor to moderate impacts caused by gale-force winds remain possible within the areas where Wind Signal No. 2 is hoisted. Minimal to minor impacts from strong winds (i.e., strong breeze to near gale strength) are also possible within any of the areas where Wind Signal No.1 is currently in effect.</li> <li>• The enhanced Southwest Monsoon will also bring <b>occasional gusts</b> in the next 24 hours over Bicol Region, Western Visayas, Quezon, Mindoro Provinces, Marinduque, Romblon, Northern Samar, and the rest of Cordillera Administrative Region and Aurora that are not under any Wind Signal</li> </ul>
HAZARDS AFFECTING COASTAL WATERS
<p>Under the influence of BETTY, a <b>marine gale warning remains in effect</b> over the northern and eastern seaboard of Northern Luzon, eastern seaboard of Central Luzon, the eastern and southern seaboard of Southern Luzon, the eastern and western seaboard of Visayas, and the eastern seaboard of Mindanao. For more information, refer to <b>Gale Warning #5</b> issued at 5:00 PM today.</p>
TRACK AND INTENSITY OUTLOOK
<ul style="list-style-type: none"> <li>• Although slight acceleration remains a possibility in the next 12 hours, Typhoon BETTY is forecast to generally move slowly between tonight and Wednesday as it turns more northward over the waters east of Batanes. Afterwards, the typhoon will gradually accelerate north northeastward on Thursday and northeastward on Friday. BETTY may exit the Philippine Area of Responsibility on Friday.</li> <li>• This typhoon is forecast to steadily weaken over the next five days due to cooler ocean waters (caused by upwelling of cooler waters in its wake) and dry air intrusion. BETTY may be downgraded into a severe tropical storm on late Thursday or early Friday and into a tropical storm on late Friday or early Saturday.</li> </ul>

Considering these developments, the public and disaster risk reduction and management offices concerned are advised to take all necessary measures to protect life and property. Persons living in areas identified to be highly or very highly susceptible to these hazards are advised to follow evacuation and other instructions from local officials. **For heavy rainfall warnings, thunderstorm/rainfall advisories, and other severe weather information specific to your area, please monitor products issued by your local PAGASA Regional Services Division.**

The next tropical cyclone bulletin will be issued at 5:00 AM tomorrow.

**DOST-PAGASA**

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Checked by:  RPG